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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/849,198	05/19/2004	DiplIng. Karl Schrodinger	2004-51636US	6994
57299 Kathy Manke	7590 06/17/200	8	EXAMINER	
Avago Technol		BELLO, AGUSTIN		
4380 Ziegler Ro Fort Collins, Co			ART UNIT	PAPER NUMBER
			2613	
			NOTIFICATION DATE	DELIVERY MODE
			06/17/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

avagoip@system.foundationip.com kathy.manke@avagotech.com adrienne.barclay@avagotech.com

Office Action Summary		Applicat	Application No. Applicant(s)		
		10/849,	198	SCHRODINGER,	DIPLING. KARL
		Examine	er	Art Unit	
		Agustin I	Bello	2613	
Period fo	The MAILING DATE of this communic r Reply	ation appears on ti	he cover sheet with	the correspondence ac	ddress
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MAN IS IN THE MAN	ALING DATE OF T f 37 CFR 1.136(a). In no en nication. utory period will apply and ill, by statute, cause the ap	THIS COMMUNICA event, however, may a reply will expire SIX (6) MONTH oplication to become ABAN	TION. y be timely filed S from the mailing date of this of DONED (35 U.S.C. § 133).	,
Status					
2a)⊠	Responsive to communication(s) filed This action is FINAL . 2! Since this application is in condition for closed in accordance with the practice	o)∏ This action is or allowance excep	non-final. ot for formal matters	· ·	e merits is
Dispositi	on of Claims				
5)⊠ 6)⊠ 7)□	Claim(s) 23-44 is/are pending in the at 4a) Of the above claim(s) is/are Claim(s) 27-36,39 and 40 is/are allow Claim(s) 23-26,37,38 and 41-44 is/are Claim(s) is/are objected to. Claim(s) are subject to restricting	e withdrawn from c red. e rejected.			
Applicati	on Papers				
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	a) accepted or the drawing(s) the correction is requ	be held in abeyance ired if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 C	, ,
Priority u	ınder 35 U.S.C. § 119				
12) <u></u> a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority of None of: 2. Certified copies of the priority of None of: 3. Copies of the certified copies of the priority of Application from the Internation of See the attached detailed Office action	ocuments have be ocuments have be f the priority docun al Bureau (PCT Ri	een received. een received in App nents have been re ule 17.2(a)).	lication No ceived in this National	l Stage
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	O-948)	Paper No(s)/N	nmary (PTO-413) fail Date rmal Patent Application	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 23-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Tanji (U.S.

Patent No. 6,512,617).

Regarding claim 23, Tanji teaches an optical transmission element (reference numeral 25

in Figure 1); a driver (reference numeral 80 in Figure 1) comprising a driver input configured to

drive the optical transmission element in response to a transmission signal applied to the driver

input to produce a drive signal for the optical transmission element; a programmable control

device (reference numeral 15 in Figure 1) configured to selectively drive the driver in a program

mode of operation; and a multiplexing device (reference numeral 35 in Figure 1) connected

between a signal input comprising an external connecting pin (reference numeral 40, 45, 50, 55

in Figure 1) of the transmission module, the driver input (reference numeral 80 in Figure 1) and

the programmable control device (reference numeral 15 in Figure 1), and configured to

selectively pass an input signal at the external connecting pin signal input of the transmission

module to the control device in the program mode or to the driver in a transmission mode of

operation (column 3 lines 55-64).

Regarding claim 24, Tanji teaches that the multiplexing device comprises a control input

(reference numeral 45 in Figure 1) via which a control signal is fed into the multiplexing device

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(reference numeral 35 in Figure 1), and wherein the multiplexing device is configured to switch in response to the control signal from a program mode switching state in which the signal input of the transmission module and the programmable control device are connected, to a transmission mode switching state in which the signal input of the transmission module and the driver input are connected, or vice versa (column 3 lines 55-64).

Regarding claim 25, Tanji teaches that the multiplexing device is configured to determine whether the input signal applied to the signal input of the transmission module is a programming signal for the programmable control device or a transmission signal for the driver, and wherein the multiplexing device is configured to switch the input signal automatically to the programmable control device if the input signal is a programming signal, or switch the input signal to the driver if the input signal is a transmission signal (e.g. signal 45 initiates the "Calibration mode" and therefore element 35 in Figure 1 determines whether the input signal is a programming signal or a transmission signal; see also column 3 lines 55-64).

Regarding claim 26, Tanji teaches a monitoring module (reference numeral 35 in Figure 1) comprising an input (e.g. "INTERFACE" of numeral 35 connected to reference numerals 45, 55 in Figure 1) connected directly or indirectly to the signal input of the transmission module and configured to identify programming signals and transmission signals in each case (e.g. inherent in the identification of the calibration initiate signal); and a multiplexing unit (e.g. the unit comprising both the CONTROL and STATE MACHINE of element 35 in Figure 1) coupled to and driven by the monitoring module via a control connection and comprising at least one input (reference numerals 45, 55 in Figure 1), two outputs (e.g. one output to reference numeral 15 in Figure 1; and a second output to reference numeral 75, 80 in Figure 1) and the control

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connection (reference numeral 45 in Figure 1), wherein the multiplexing unit is connected directly or indirectly at the input to the signal input of the transmission module (reference numerals 45, 55 in Figure 1) and at the output to the driver input of the driver (reference numeral 80 in Figure 1) and to the programmable control device (reference numeral 15 in Figure 1), respectively, and wherein the multiplexing unit is configured to connect the signal input of the transmission module to the driver input of the driver or to the control device as a function of a control signal from the monitoring module (e.g. signal 45 initiates the "Calibration mode" and therefore element 35 in Figure 1 determines whether the input signal is a programming signal or a transmission signal; see also column 3 lines 55-64).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 37-38 and 41-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanji.

Regarding claim 37-38 and 41-44, Tanji differs from the claimed invention in that Tanji fails to specifically teach a level detector, frequency detector, or code detector which act to evaluate the input signal and determine whether the input signal is a transmission signal or a programming signal. However, one skilled in the art would clearly have recognized that any of

these differentiators and their corresponding detectors could have been used to determine whether the input signal is a transmission signal or a programming signal. Differentiation of signal according to level, frequency, or code is very well known in the art and therefore, it would have been obvious to one skilled in the art at the time the invention was made to employ any of these differentiators and their corresponding detectors in the system of Tanji.

Allowable Subject Matter

5. Claims 27-36, 39-40 are allowed.

Response to Arguments

6. Applicant's arguments filed 10/31/07 have been fully considered but they are not persuasive. The applicant argues that the amended claim distinguishes the invention from the prior art. However, the examiner maintains that the cited prior art continue to read on the claimed invention.

In response to applicant's arguments, the recitation of the optical transmission module being embodied in an integrated circuit has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and Kropa v. Robie, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

Furthermore, even if the preamble of the amended claim were to be given patentable weight, the examiner contends that embodying the optical transmission module as an integrated circuit would have been obvious to one skilled in the art. *In re Larson, 340 F.2d 965, 968, 144 USPO 347, 349 (CCPA 1965)*.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Agustin Bello whose telephone number is (571) 272-3026. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571)272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Agustin Bello/ Primary Examiner, Art Unit 2613